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(57) Abstract:

CONSTITUTION: A probe 1 has LEDs 10, 20, a photoelectric effect sensor 30 and a coded resistor 40. The probe 1 is free to remove, and it is connected to an oxygen concentration meter 60 through a connector 52. Voltage generated on the resistor 40 by an electric current I of an electric current source 69 reaches a CPU 61 through a multiplexor 66 and a comparator 65. The CPU computes a value of the resistor 40 built in the probe 1 and finds wavelength of each of the LEDs from combination of a resistance value stored in an ROM 62 and wavelength of the LEDs 10, 20. When the wavelength is found, the CPU automatically carries out repeated correction of an optical comparison circuit. The CPU actuates each of the LEDs through a control circuit 67, and a detected electric current by the sensor

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